

Solubility of Titanium, Zirconium, and Hafnium
Oxides in Molten Alkali Metal Fluorides, by
M. K. Dolgoplosky, G. G. Budenokaya, 7 pp.

RUSSIAN, per, Uraia Khia Zhur, Vol XXVIII, No 5,
1962, pp 545-550. 9207639

AEC-Tr-5601

Sci - Chem
Jun 63

231,871

Study of Gallium Oxalates, by L. I. Dubovenko.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXVIII,
1962, pp 675-681.

SLA 63-14463

Sci - Chem
6 Feb 63

Pamfilov, A. V., Mushii, R. Ya., and
Mazurkevich, Ya. S.
PHOTOCATALYTIC ACTIVITY OF ANATASE AND
RUTILE. [1963] 7p. (figs. tables omitted) 22 refs.
Order from OTS or SLA \$1.10 63-16533

Trans. of Ukrainskii Khimicheskii Zhurnal (USSR)
1962, v. 28, no. 5, p. 589-594.

DESCRIPTORS: *Titanium compounds, *Oxides,
*Dioxides, *Photochemistry, Photoelectric effect,
*Catalysis, Hydrolysis, Chlorides, Annealing.

The photocatalytic activity of rutile, obtained by the
hydrolysis of titanium tetrachloride, is considerably
higher than the activity of rutile, obtained by annealing
anatase at high temperature. The activity of rutile,
obtained by the hydrolysis of $TiCl_4$ and related to a unit
of surface, almost coincides with the activity of anatase,
also obtained from $TiCl_4$ by the precipitation of ammo-
(Chemistry--Physical, TT, v. 10, no. 9) (over)

63-16533

- I. Title: Anatase
- I. Pamfilov, A. V.
- II. Mushii, R. Ya.
- III. Mazurkevich, Ya. S.

Office of Technical Services

Study of Indium Oxalates, by L. I. Dubovenko.

RUSSIAN, per, Ukrain Khim Zhur, Vol XXVIII,
1962, pp 632-637.

SLA

OTL 43-10116

Sci - Chem
6 Feb 63

Shapovalova, L. P., Gorokhovatskii, Ya. B., and
Rubanik, M. Ya.
OXIDATION OF UNSATURATED HYDROCARBONS ON
A COPPER CATALYST. [1963] 8p.
Order from ATS \$11.50 ATS-16Q68R

Trans. of Ukr[ainian] Khim[ical] Zh[urnal] (USSR)
1962, v. 28, no. 9, p. 1031-1036.

DESCRIPTORS: *Oxidation, *Hydrocarbons, *Copper,
Catalysts

(Chemistry--Organic, TT, v. 10, no. 3)

63-17377

I. Shapovalova, L. P.
II. Gorokhovatskii, Ya. B.
III. Rubanik, M. Ya.
IV. ATS-16Q68R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

ICE 11/15/62

Office of Technical Services

Romankovich, M. Ya., Sinyavskii, V. G., and
Tsygankova, M. P.
**SYNTHESIS AND INVESTIGATION OF SELECTIVE
POLYELECTROLYTES, PT. I. [1963] 8p 14refs**
Order from OTS, SLA, or ETC \$1.10 TT-64-10485

Trans. of Ukrain[skii] Khim[icheski]i Zhur[na]l (USSR)
1962, v. 28 [no. 9] p. 1096-1099. (Abstract available)

DESCRIPTORS: *Ion exchange resins, Electrolytes,
*Styrene plastics, Synthesis (Chemistry) Nitration,
Addition reactions, Metals, Ions, Separation,

Polynitrostyrene, polyaminostyrene and their diazotiza-
tion coupling products with: p-cresol, p-nitrophenol,
p-naphthol, resorcinol, anilid of acetoacetic acid,
benzazoresorcinol, pyrogallol, 8-oxyquinoline,
acetanilid, 1-phenyl-3-methyl-pyrazolone-5, salicylic
acid, gallic acid, anthranilic acid, chromothropic acid,
(Chemistry, TT, v. 11, no. 5) (over)

TT-64-10485

1. Title: Polyaminostyrene
2. Title: Polynitrostyrene
- I. Romankovich, M. Ya.
- II. Sinyavskii, V. G.
- III. Tsygankova, M. P.

Office of Technical Services

The Derivatives of Aniline and Phenol as
Effective Inhibitors of Titanium Corrosion
in Hydrochloric Acid, by A. P. Brynza and
L. I. Gerasymtina,
RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal,
Vol XXVIII, No 9, 1963, pp 1066-1068.
NLL RTS 2747 (On Loan or Purchase)

Sci-Chem
Mar 67

321,454

Interaction of Titanium With Hydrogen Peroxide and
Oxalic Acid, by L. I. Rubovenko, E. I. Gerasenko,
5 pp.

RUSSIAN, per, *Ukrain Khim Zhur*, Vol XXIX, 1963,
pp 255-258.

9212200
ABC-Tr-5819

Sci - Phys

Aug 63

343,422

Agency: Ploating Arsenal.

R-10,103-2

P.O. No. 94-690.

R-11,003-D

3 Feb. 1969

Title: Thermal decomp. of solid salt solus. I.
isoth. decomp. of binary solid solus. of Fe,
Co, & Ni. pp. 262-271.

Author: Kuznetsov, V.P., et al.

Source: Ukr. Khim. Zh. Vol. 29 (3). (1963).

Language: Russian ~~800~~.

10pp

Special instruction: Please translate & type 1 copy only.

Kornienko, V. P., Dubrovskaya, M. N., and
Shapovalov, G. M.

THERMAL DECOMPOSITION OF SOLID SALT
SOLUTIONS. II. THERMOGRAPHY OF BINARY
SOLID SOLUTIONS OF OXALATES OF FERROUS
METALS. 19p 13refs

Order from CTS, SLA, or ETC \$1.60 TT-64-16589

Trans. of Ukrainskii Khimicheskii Zhurnal (USSR)
1963, v. 29, no. 3, p. 271-278.

TT-64-16589

I. Kornienko, V. P.
II. Dubrovskaya, M. N.
III. Shapovalova, G. M.
IV. Title: Thermography

(Chemistry--Physical, TT, v. 12, no. 3)

Office of Technical Services

Electrochemical Oxidation and Reduction of
Suspensions of Barely Soluble Compounds, by
M. A. Lomkharyv and I. P. Chernobaev,
RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal,
Vol. XXIX, No 3, 1963, pp 287-292.
NLL RTS 271/2 (On Loan or Purchase)

Sci-Chem
Mar 67

321,455

The Effect of the Temperature of the Liquid
Quenching Surface in the Catalytic Oxidation of
Methanol, by P. L. Stadnik, V. P. Stadnik.
RUSSIAN, per. Ukr Khim Zh. Vol 29, No 4, 1963,
pp 365-368.
ATC-83-4840

Sci
Dec 68

353,886

Electrodeposition of Coppers from Sulphate
Solutions at High Current Densities, by
G. A. Emel'yanenko, G. G. Simulin,
RUSSIAN, por, Ukrain Khim Zhurnal, Vol XXIX,
No 4, 1963, pp 404-408.
NLL RTS 2830
On Loan Only

Sci-Chem
Jul 67

330,611

Comparative Characteristics of Spectrophotometric
Methods for Identifying Tantalum and Niobium, by
A. I. Filipenko, O. M. Kremenko, 3 pp.
RUSSIAN, per, Ukrainskiy Khim Zhur, Vol XXXIX, No 5,
1963, pp 532-538. 9693137
FTD-TT-64-370

Sci - Chem
Jul 64

263,725

Interaction of Copper Hydroxide and Oxide With
Monethanolamine, Diethanolamine and Triethano-
lamine, by M. Arterenko.

UKRAINE, per, Ukr. Khim. Zh., Vol 29, 1963,
pp 571-576

OSIR/No. 9357

sci/ chem
aug 69

389,746

Use of the Thermodynamic Parameters of
Substances and Reactions in the Choice of
Catalysts, by G. I. Golodets, V. A.

Roiter, 41pp.

RUSSIAN, per, Ukrainskii Khimicheskii
Zhurnal, Vol 29, 1963, No 7, pp 667-685.

CFSTI TT-64-19379.

323,213

Sci - Chemistry

Apr 67

Use of the Thermodynamic Parameters of
Substances and Reactions in the Choice of
Catalysts, by G. I. Golodets and V. A. Roiter.
RUSSIAN, per, Ukrainskii Khim Zhurnal,
1963, Vol 29, No 7, pp 667-685.
NLL RTS 2553 (On Loan or Purchase)

Aug 65

HTS 32R76R
286,461

Investigation of the Oxidation of Methanol in the
Presence of a Silver Catalyst, by H. P. Lymanenko.
RUSSIAN, per, Ukr. Khim. Zh., Vol 49, No 7, 1963,
pp 731-735.
APB-4841

Sci
Dec 68

353,027

Dissociation Constants of Some Xanthic Acids
in Aqueous Solution, by A. P. Gavish.
UKRAINIAN, per, Uk Khim Zh, Vol 29, No 9,
1963, pp 900-904.
NTC 69-12536-07D

Sci-Chem
Aug 69

386,859

Pyatnitskii, I. V. and Erisov, V. Yu.
COULOMETRIC DETERMINATION OF VANADIUM IN
TITANIUM TETRACHLORIDE. [1963] 6p
Order from ATS \$8.25

ATS-52R74R

Trans. of Ukr[ainski] Khim[icheski] Zh[urnal] (USSR)
1963, v. 29, no. 10, p. 1088-1092.

(Chemistry--Analytical, TT, v. 11, no. 12)

TT-64-12703

I. Pyatnitskii, I. V.
II. Erisov, V. Yu.
III. ATS-52R74R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

ХІМІЧНИЙ**ЖУРНАЛ**

Fusibility Diagram for the NaF-KF-ZrF₄ Ternary System, by I. N. Sheiko, V. S. Kikhno, et al, 8 pp.

UKRAINIAN, per, Ukrain **K** Khaim Zhur, Vol XXIX, 1963, pp 1259-1264. 9222637

AEC-ORNL-Tr-31

Sci-Chem
Jun 64

260,926

Infinitesimal Bendings on Surfaces with an
Edge Under Certain Boundary Conditions, by
V. T. Fomenko

RUSSIAN, per, Ukrainskii Matematicheskii
Zhurnal, Vol 16, No 5, 1964, pp 699-704
NTC 71-15241-20K

mar 72

Solubility of Bismuth in Fused Bismuth Chloride,
by Yu. K. Delimarsky, Yu. G. Roms, 10 pp.
KUKRAINIAN, per, Ukrain Khim Zhur, Vol XXX, No 5,
1964. 9226142
AEC-AI-Tr-62

Sci-Chem
Jan 65

270,595

Polyamides Having Aromatic and Heterocyclic Groups Within the Chain. V. Polyamides From BIS-(4-Amino-Cyclohexyl)-Methane and Heterocyclic Dicarboxylic Acids, by V.P. Sanzhevskaya.

RUSSIAN per, Ukr. Khim. Zh. Vol. 30, 1964

pp 83-85

NLI/5828.4 1965 (5655)

613 39 *Hand* 1/246

Sci -

Aug 67

337-566

Polarographic Determination of the pH for the
Beginning of Dissolution and Calculation of the
Activity Products of Tungstic and Vanadic
Acids, by L. B. Reznik, P. N. Kovalenko.
RUSSIAN, per, Ukrainskiy Khimicheskiy
Zhurnal, Vol 30, No 5, pp 514-520, 1964
AEC OENL-TT-416 9229609

Sci-Chem
Nov 68

291,999

1001

CSIRO-Trans-10446 Uncl.

PRODUCTION OF PURE VANADIUM PENTOXIDE FROM COM-
MERCIAL MATERIAL BY CHLORINATION. Vinarov, I. V.;
Yankelevich, R. G. Translated by G. Hitoun from Ukr. Khim.
Zh.; 30: No. 5, 524-7(1964). 9p.

chemistry (physical); translations

ND-4 NP RC

Unlimited

Behavior of Zirconium Dichloride in Molten
Mixtures of Alkali and Alkali Earth Metals,
by I. N. Sheyko, V. T. Barchuk.

Ukrainian

~~English~~, per, Ukrains Khim Zhur, Vol XXX,
No 6, 1964, pp 577-581. 9251675
AEC-ANL-Tr-233

Sci - 14/51

Jan 65

294,286

Reaction of Polystyrene with Colloidal Lead
Particles at the Instant of Their Formation
at the Cathode, by E. M. Matanson, Z. R.
Ul'berg, 10 pp.
RUSSIAN, per, Ukrainskiy Khimicheskiy Zhurnal,
Vol 30, No 8, Aug 1964, pp 805-810.
JPRS 28262

Sci-Chem
Mar 65

275,556

Pyrido (2,1-b) Thiazolium Salts and Derived
Cyanine Dyes, by F. S. Babichev,
V. N. Bubnovskaya.
UKRAINIAN, per, Ukrainskiy Khim Zh, Vol 30,
No 8, 1964, pp 848-856.
NTC-69-16240-07C

Sci-Chem
Feb 70

402,956

Influence of Small Additions of Metals the
Physiochemical Properties of Zinc Coatings.
by N.N. Gtatsianskiy, A.K. Ryabov.
RUSSIAN, per Ukr. Khim. Zh. Vol. 30, No. 8,
1964, pp 883-886
GE 72

Sci -
Aug 67

337-384

Dissociation Potentials of Molten Nitrites
Of Alkali Metals, by P. I. Protzenko, A. V.
Protzenko, 5 pp.
RUSSIAN, per, Ukrainski Khimicheskiy Zhurnal,
Vol 30, 1964, pp 1051-1054. F911279167
AEC A1 Tr-238

336,991

Sci - Materials
Sep 67

Complex Formation in the Systems Titanium (IV) -
Pyrocatecholantipyrine and Titanium (IV) -
Pyrogallol-Antipyrine.

RUSSIAN. per Ukr. Khim. Zh. Vol. 30, No. 11, 1968,
pp 1135-1141

GB 131/T 4268

Sci

Sep 67

33-848

Chemical Problems of the Protection of
Reservoirs and the Improvement of the
Quality of Water, by L. A. Kulsky, et al.
~~Ukrainian~~ Paper, Ukrainskii Khimicheskii
Zhurnal, Vol 30, No 12, 1964, pp 1241-1246.
NHL Shelfmark R.0184.3

Sci-Chem
June 66

301,432

Isotope Investigation of the Decomposition
Mechanism of Per-Sulphate in an Acidic Medium,
by V.A. Lunenok-Burmakina, A.P. Potemskaya
RUSSIAN, per. Ukr. Khim. Zh., Vol. 30, No. 12
1961, pp 1262-1266
GB 118/LCL/2062/J

Sci -
Aug 67

337-134

Influence on a Uniformly Stressed Plane Field of
an Elastic Ring Which is Welded into a
Curvilinear Hole, by M. P. Shchegolev.

RUSSIAN, Prilozheniye Matematicheskoy Zhurn. No 3, 1969,
pp 68-70.

NLE Ref: S828.4 1962 (5,227)
(loan)

Sci-Phys
July 63

1221
236,101

Hermitian-Positive Kernels on Homogeneous Spaces,
by M. G. Krein, 40 pp.
RUSSIAN, per, Ukrainskiy Matemat Zhur, No 4, 1949,
pp 64-98.
Amer Math Soc

Sci - Math/Data PROC
Apr 64

255,886

On a New Form of Adiabatic Perturbation Theory in the
Problem of Particle Interaction With a Quantum Field,
by N. N. Bogolyubov

RUSSIAN, per, *Ukrainskiy Matematicheskiy Zhurnal*, Vol
II, No 2, 1950, pp 3-24.

Norris D. Friedman
Two Pine Street
West Concord, Mass.

Scientific - Physics

~~32,696~~

32829 Apr 56

On Dynamical Systems in Function Spaces, by
S. Poincaré, 25 pp.
RUSSIAN, per, Ukrain, Mat. Z, Vol 2, No 2, 1950
pp 25-47
Amer Math Soc Tr
Vol 61, Series 2

337,015

Sci - Math
Sep 67

Krein, M. G.
HERMITIAN-POSITIVE KERNELS ON HOMOGENEOUS
SPACES, II (Ermilovo-Polozhitel'nye Yadra na
Odnorodnykh Prostranstvakh, II)
J. M. Dinnikin, tr. 1963, 56p 36refs
Order from AMS to American Mathematical Society
Translations, 1963, ser. 2, v. 34, p. 109-164
Trans. of Ukrain[skii] Mat[ematicheskii] Zhurnal (USSR)
1960, v. 2 [no. 1] p. 10-59.

(Mathematics, TT, v. 12, no. 1)

TT-64-22119 (p. 109-164)

I. Krein, M. G.
II. American Mathematical
Society, Providence, R. I.

Office of Technical Services

On dynamical systems in function spaces, by S. Fomin.
Ukrain. per, Ukrain. Mat. Z., Vol 2, 1950, pp25-47,

No. 2

Am Math Soc

Vol 63, Ser 2

Sci-Math
Oct 67

242.172

Gikhman, I. I.
ON CERTAIN DIFFERENTIAL EQUATIONS WITH
RANDOM FUNCTIONS. [1961] [40] p. 11 refs.
Order from CTS or SLA \$3.60 61-10522

Trans. of Ukrainsky Matematicheskyy Zhurnal (USSR)
1960, v. 2, no. 3, p. 45-69.

DESCRIPTORS: *Differential equations, *Statistical
functions, Theory.

(Mathematics, TT, v. 6, no. 1)

61-10622

I. Gikhman, I. I.

167599

Office of Technical Services

The Theory of Nonnegative and Oscillating Matrices,
by D. M. Koteljanskiy.

RUSSIAN, per, Ukrain Matemat Zhur, Vol II, No 2, 1950,
pp 94-101.

Amer Math Soc

Sci-Math

Sep 63

344,283

Gikhman, I. I.
ON THE THEORY OF DIFFERENTIAL EQUATIONS
OF RANDOM PROCESSES. [1961] [41]p. 9 refs.
Order from OTS or SLA ml\$4.60 61-10317

Trans. of Ukrainskiy Matematicheskiy Zhurnal (USSR)
1950, v. 2, no. 4, p. 37-63.

DESCRIPTORS: *Differential equations, *Statistical
functions, Theory.

The study is made to (1) establish connection between
Markov processes and independent increment proc-
esses (2) provide general determination of random
function differential equations, (3) establish corre-
sponding theorems on their existence and uniqueness,
and (4) obtain a large class of Markov processes
which are based upon the differential equations con-
cept. The recommended determination of the differ-
ential equation is a modification of corresponding con-
structions of the theory of differential stochastic
(Mathematics, TT, v. 6, no. 1) (over)

61-10317

I. Gikhman, I. I.

161584

Office of Technical Services

Davidenko, D. F.
ON THE APPROXIMATE SOLUTION OF SYSTEMS OF
NONLINEAR EQUATIONS. [1962] 15p. 6 refs.
Order from OTS or SLA \$1.60 63-10305

Trans. of [Ukrainskii Matematicheskii Zhurnal (USSR)
1953, v. 5, p. 195-206].

DESCRIPTORS: *Numerical analysis, *Numerical meth-
ods and procedures, *Equations, *Algebra, *Differen-
tial equations, Integration, Transformations
(Mathematics).

(Mathematics, IT, v. 10, no. 1)

63-10305

I. Davidenko, D. F.

Office of Technical Services

On an Integrally-differential Relation in the
Theory of Elastic Threads (ropes) of Variable
Length, by A. Yu. Ishlinskiy, 6 pp.

RUSSIAN, per, Ukrainskiy Matemat Zhur, Vol. V,
No 4, 1953, pp 370-374.

Sci Tr Center
RT-1487

Scientific Mathematics

18,943

On Some Limit Theorems for Conditional Distributions
and On Problems of Mathematical Statistics Con-
nected With Them, by I. I. Gihman.

RUSSIAN, per Ukrain Matemat Zhur, Vol V, 1953,
pp 413-433.

*Trans Comm of Amer
Math Soc

Sci
Aug 60

An Asymptotic Approximation Method for a System
With Rotating Phases and Its Application to the
Motion of a Charged Particle in a Magnetic
Field, by N. N. Bogolyubov, D. N. Zubarev, 25 pp.

UKRAINIAN, per, Ukrain Mat Zhur, Vol VII, 1955,
pp 5-17.

AEC NP Tr-423

SLA 60-1599

Sci - Math

Aug 60

124, 012

Application of the Method of Parameter Variation to the Theory of Nonlinear Functional Equations, by D. P. Davidenko.

UKRAININA, per, Ukrayins'kyy Matematicheskyy Zhurnal, Vol 7, No 1, 1955, pp 18-28.

NASA TT F-11,273

Sci-Math
Jan 68

347,655

The Location of the Points of a Matrix Spectrum,
by D. M. Kotljanskiy.

RUSSIAN, per, Ukrain Matemat Zhur, Vol VII, 1955,
pp 131-133.

Amer Math Soc

Sch-Math

NSep 65

344,268

On Single-Valued Solutions of First-Order Differential
Equations, by A. A. Gol'dberg, 11 pp.

RUSSIAN, per, Ukrainskiy Matematicheskiy Zhurnal,
Vol 8, No 3, 1956, pp 254-261.

Dept of Navy NRL Tr 1224

April 71

On a Certain Property and a New ~~EX~~Definition
of Generalized Almost Periodic Functions of
A. S. Besicovitch, by A. S. Kovan'ko.

RUSSIAN, per, Ukrain Matemat Zhur, Vol VIII,
1956, pp 273-288.

Amer Math Soc

Sci-Math

Sep 63

344,203

(FDD 28703)

Yevgeniy Yakovlevich Remez (on His Sixtieth Birthday), by B. V. Gnedenko, I. B. Pogrebysskiy, 16 pp.

RUSSIAN, no per, Ukrain Matemat Zhur, Vol VIII, No 2, Kiev, Apr-Jun 1956, pp 218-222.

CIA/~~DD~~ U-9169
FDD

USSR
Sci - Mathematics
Bio

41, 9/6

Nov 1956/CTS

(FDD 28709)

Yuriy Dmitriyevich Sokolov (on His Sixtieth Birthday), by T. V. Putyata, B. N. Eradlin, 23 pp. (F)

RUSSIAN, no per, Ukrain Matemat Zhur, Vol VIII, No 2, Kiev, 1956, pp 223-230.
(Apr-Jun)

CIA/FDD U-9170

USSR
Sci - Mathematics
Bio
Nov 1956/CIS

4, 9/5

On Single-Valued Solutions of First-Order
Differential Equations, by A. A. Goldberg, 11 pp.
RUSSIAN, per, Uk Matematicheskii Zh, Vol 8, No 3,
1956, pp 245-261.
Dept of Navy/NRL-Tr-1224

Mar 71

Table of Contents only of:

RUSSIAN, per, Ukrain Mate Zhurnal, Vol IX, No 1, 1957.

CIA/FDD X-2536

(Morris D. Friedman)

Sep 57

Method of Averaging of Functional Corrections,
by Yu. D. Sokolov,
RUSSIAN, per, Ukrain. Mat. Zhurnal, Vol IX,
No 1, 1957, pp 82-100.
AEC ANL-tr-333

Sci-Math
Nov 66

313,713

Table of Contents only of:

RUSSIAN, per, Ukrain Matem Zhur, Vol IX, No 3, 1957.

CIA/FDD X-2712

Morris D. Friedman

Feb 58

Table of Contents

UKRAINIAN

~~RUSSETAN~~, per. Ukrain Matemat Zhur, Vol IX, No 4,
1957

CIA/FDD X-2897

✓
The Behavior of Solutions of a System of Differential
Equations in the Vicinity of an Isolated Static
Solution, by O. B. Lykova. 23 pp.

RUSSIAN, per, Ukrainskiy Matematicheskiy Zhurnal,

Vol 9, No 3, 1957, pp 281-294.

AIR/FTD-LT-24-750-71

Oct 71

Application of the Method of Averaging of Functional Corrections to Nonlinear Integral Equations, by Yu. D. Sokolov.
RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal,
Vol 9, No 4, 1957, pp 394-412, P911085066
AEC ANL-tr-347

Sci/Mathematical Sci
Nov 66

311,533

Behavior of the Solutions of a System of Differential Equations in the Neighborhood of Closed Orbits, by O. B. Lykova. 23 pp.

RUSSIAN, per, Ukrainskiy Matematicheskiy Zhurnal, Vol 9, No 4, 1957, pp 419-430.

AIR/FTD/HC-23-743-71

Dec 71

Method of Selecting Logical Operations & Mechanisms
to Execute Them in Digital Computers,

RUSSIAN, per, Ukr Mat, 1958, 17 pp.

Language Sv Bu

Sci - Math

Oct 60

129,670

BD-528

(NY-1967)

Yosif Zakharovich Shtokalo (On His 60th Birthday),
by Yu. D. Sokolov, I. B. Pogrebysskiy,

RUSSIAN, per, Ukrainskiy Mat Zhur, No 1, Kiev, 1958,
p 2.

*US JPRS

USSR
Biog
28 Oct 58

A Method for the Approximate Solution of the
Cauchy Problem for Conventional Differential
Equations, by E. A. Chernyshenko.
RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal,
Vol 10, No 1, 1958, pp 89-100. P911097566
AEC A11-rr-363

Sci/Mathematical Sci
Dec 66

314,631

Approximation Solution of Linear Integral Volterra
Equations, by Yu. D. Sokolov.
RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal,
Vol 10, No 2, 1958, pp 193-208. P911069966
AHC ANI-tr-354

Sci/Mathematical Sci
Oct 66

311,482

Methods of Selecting Logical Operations and
Mechanisms to Execute Them in Digital Computers,
by G. G. Lishchenko, 17 pp.

RUSSIAN, per, Ukr. Mate. Zh., Vol X, No 4, 1958,
pp 375-388.

MMF - L-130
FID X-4499

Sci - Electronics

Nov 60

131, 82.8

Dispersion Relations in a Diffraction Problem;
by D. I. A. Petrina. 9 pp.

RUSSIAN, per, Ukr. Mat. Zh., Vol X, No 4, 1958,
pp 405-412.

MDP - P-137
FID X-4495

Sol. - Electronics

Nov 60

131, 832

A Method for the Approximate Solution of Non-
Linear Integral Equations With Variable Limits,
by M. D. Sokolov.

RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal,
Vol 10, No 4, 1958, pp 419-431. P011097666

AEC WRL-tr-361

Sci/Mathematical Sci

Dec 66

614 600

Shevelo, V. N.
SOME REMARKS ON THE MOTION OF A VARIABLE
MASS OSCILLATOR. [1961] [10]p. 6 refs.
Order from DTS or SLA \$1.10 61-10318

Trans. of Ukrainskiy Matematicheskiy Zhurnal (USSR)
1959, v. 11, no. 1, p. 105-108.

DESCRIPTORS: *Oscillations, Motion, Mathematical
analysis, Differential equations.

(Mechanics--Kinetics, TT, v. 6, no. 1)

61-10318

I. Shevelo, V. N.

161585

Office of Technical Services

Trigonometric Interpolation of Conformal Mapping
Functions, by A. G. Ugodchikov, 5 pp.

UKRAINIAN, per, Ukrain Matemat Zhur, Vol XI,
No 2, 1959, pp 111-114.

ACSI H-6331

Sci - Math

118, 688

Jun 60

Retarded and Advanced Green's Functions in the
Theory of Ferromagnetism, by S. V. Tyablikov,
8 pp.

RUSSIAN, per, Ukrain Matemat Zhur, Vol XI, No 3
1959, pp 287-294.

MDF T-140

Sci
CTS, Vol III, No 7
Nov 60

133,041

(DC-5533)

Nikolay Nikolayevich Bogolyubov, by Yu. A.
Mitropol'skiy, S. V. Tyablikov, 26 pp.

IAN
UKRAINE, per, Ukrain Matemat Zhurn, No 3, 1959,
pp 295-311.

JPRS 8432

USSR

155, D35

Biog

Jun 61

416

(NY-3232).

General Meeting of the Department of
Physicochemical Sciences of the Academy of
Sciences Ukrainian SSR, by V. Shevchuk, A.
Koshchuk, 6 pp.

RUSSIAN, per, Zhurnal Matematicheskoi Fiziki, Vol. XX, No. 3,
Kiev, Jul-Sep 1959, pp 335-336.

JPRS-2201-W

Sci - Phys
Feb 60

108,019

Extension of Floquet's Theorem to
Nonlinear Equations, by A. A. Sharshanov,
20 pp.
RUSSIAN, per, Ukrain Mate Zhur, Vol XI,
No 4, 1959, pp 413-430.
CIA/FDD X-5826

Sci - Math & Data Proc
Mat 66
FOR OFFICIAL USE ONLY

297,601

Approximate Solution of Integral Fredholm Equations by the Method of Averaged Functional Corrections, by A. Yu. Luchka.

RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal, Vol 12, No 1, 1960, pp 32-45. P911010267

REC ANL-ex-395

Sci/Math
Feb 67

318,529

Application of the Operational Method to Certain
Problems of Thin Cylindrical Shells, 3 pp.

UKRAINE, per, Ukrainskiy Matematicheskii
Zhurnal, Vol. XII, No 1, 1960, pp 55-71.

AID SIR-3420

Sci - Phys
Aug 60

123,596

On the Motion of a Load on a Shallow Shell, by
A. I. Bereznovskiy.

RUSSIAN, per, Ukrainskiy Mate Zhur, Vol XII,
No 1, 1960, pp 79-87.

*FTD-MIT-62-27

Sci - Machine Translation

7 Aug 62

(NY-5154)

On a Single Synthesis Algorithm for Abstract
Automata, by V. M. Glushkov, 15 pp.

RUSSIAN, per, Ukrain Matemat Zhur, Vol XII,
No 2, Apr 1960, pp 147-156.

JPRS 7355

Sci - Phys

Mar 61

SLA-61-12859
139,274

Application of the Method of Averaging of Functional Corrections to Parabolic Differential Equations Linear with Respect to Derivatives, by Yu. D. Sokolov.

RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal, Vol 12, No 2, 1960, pp 181-195. P911085166
REC NL-350

Sci/Mathematical Sci
Nov 66

311,511

Solution of the Inverse Diffraction Problem,
by D. Ya. Petrina, 5 pp.

RUSSIAN, per, Ukrainskiy Matemat Zhur,
Vol XII, No 4, 1960, pp 476-479.

MDF P-165

9093077

157205

Sci.
Nov 61

Approximate Solution of Linear Operator Equations in a Banach Space by Yu. D. Sokolov's Method, by A. Yu. Luchka.
RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal,
Vol 13, No 1, 1961, pp 39-52. P911-10167
AEC ANL-61-396

Sci/Math
Feb 67

518,531

SF-1878.

Nikolay Ivanovich Maslhelishvili, by G. N. Savin,
7 pp.

RUSSIAN, per, Ukraini shly, Maidan Zhar, Vol XIII,
No 1, 1961, pp 119-123.

JPRS 4780

USSE

B103

Aug 61

162,151

MONSTEADY-STATE OSCILLATIONS OF NONLINEAR
SYSTEMS WITH GYROSCOPIC MEMBERS TAKING INTO
ACCOUNT COUPLING TO A LOW-POWER SOURCE, BY
V. A. GROBOV, 5 PP.

UKRAINIAN, PER, UKRAIN MATEMAT ZHUR, VOL XIII,
NO 2, 1961, PP 220-223. 9678081

FTD-TT-62-472

SCI - PHYS
SEP 62

209,694

Method of Displaying Equipotential Lines, by
A. G. Tarapon.

RUSSIAN, per, Ukrainskii Matematicheskii
Zhurnal, Vol 14, No 4, 1962, pp 432-435.

NTC-70-13212-12A

Feb 72

Gokhberg, I. Ts. and Krein, M. G.
TRANSFORMATIONS OF KERNELS OF INTEGRAL
EQUATIONS AND THEIR INFLUENCE ON THE
SPECTRA OF THESE EQUATIONS (O Vliyani
Nekotorykh Transformatsii Yader Integral'nykh
Uravnenii na Spektry Etikh Uravnenii)
H. P. Thielman, tr. 1964, 33p 12refs
Order from AMS in American Mathematical Society
Translations, 1964, ser. 2, v. 35, p. 263-295
Trans. of Ukrain[skii] Mat[ematicheski] Zh[urnal]
(USSR) 1961, v. 13, no. 3, p. 12-38.

(Mathematics, IT, v. 12, no. 2)

TT-64-22134 (p. 263-295)

I. Gokhberg, I. Ts.
II. Krein, M. G.
III. American Mathematical
Society,
Providence, R. I.

Office of Technical Services

SOLUTION OF THE EQUATIONS OF AN EQUILIBRATED
GYROSCOPE BY THE METHOD OF NEUTRALIZATION, BY
R. M. BORODINA, 7 PP.

RUSSIAN, PER, UKRAIN MATEMAT ZHUR, VOL XIII, NO 3,
1961, PP 97-100. 9678203

FTD-TT-62-609

SCI - ELECTRON
12 OCT 62

2212,818

On the Numerical Decomposition of a System of
Linear Ordinary Differential Equations, by
S. F. Fescenko, L. D. Nikoenko.

~~UKRAINIAN~~

UKRAINIAN, per, Ukrain skiy Matemat Zhur, Vol XIII,
No 3, 1961, pp 109-113.

*Redstone Arsenal

Sci - Math & Data Proc
June 63

S-883/62

~~DC~~ DC-8323

Science - A Weapon for Building Communism.

RUSSIAN, per, Ukrainskiy Matematicheskii Zhur, Vol
XIII, No 4, 1961, pp 3, 4.

*JPRS

Sci - Misc
Dec 62

A Method for the Approximate Solution of Systems
of Linear Integral Equations, by Yu. D. Sokolov.
RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal,
Vol 13, No 4, 1961, pp 79-87. P911011967
AEC ANL-tr-394

Sci/Mathematical Sci
Feb 67

318,523

(NY-6502)

On An Algorithm Defining the Equivalent
Initial Conditions for Linear Nonhomo-
geneous Differential Equations With Con-
stant Coefficients, by A. D. Myshkie,
P. I. IMA Chirayev, 6 pp.

RUSSIAN, per, Ukrain Matemat Zhur.
Vol VIII, No 4, 1961, pp 104-109.

JPRS 13221

Sci - Phys

190,006

Apr 62

Wave Motions of ~~the~~ an Ideal Fluid in Vessels Having the
Shape of Bodies of Revolution, by I. A. Lukovskiy,
10 pp.

RUSSIAN, per, Ukrain Matemat Zhur, Vol XIV, No 2, 1962,
pp 160-169.

CIA/TDD XX-1209

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Jul 62

USIE INTERNAL USE ONLY

202,094

Application of Markov Processes in the Statistical
Theory of Stability of Shells, by V. M. Goncharenko,
6 pp.

UKRAINIAN, per, Ukr Mate Zhur, Vol XIV, No 2,
1962, pp 198-202.

CIA/FDD X-5485

Sci - Phys

Nov 64

FOR OFFICIAL USE ONLY

269,311

Concerning the Existence and Characteristics of
the Integral Multiformality of a System of Differ-
ential Equations With a Lagging Argument, by
V. I. Podchuk.

RUSSIAN, per, Ukrain Matemat Zhur, Vol XIV, 1962,
pp 227-231.

NASA TT F-0327

229,231

Sci -
Apr 63
US GOV'T ONLY

AUTOMATA AND EVENTS, BY V. G. BODNARCHUK, 34 PP.

RUSSIAN, PER, UKRAINSKIY MATEMATICHESKIY ZHURNAL,
VOL XIV, NO 4, OCT 1962, PP 351-361.

JPRS 17879

SCI - MATH

MAR 63

224,106

A Study of Nonlinear Oscillatory Systems with
Many Degrees of Freedom in the Presence of
Random Perturbations, by V. G. Kolomiyets,
6 pp.

RUSSIAN, per, Ukrainskiy Matematicheskiy
Zhurnal, Vol 14, No 1, 1962, pp 407-411.

FI00256268-V

FTD-HT-23-772-67

Sci-Physics
Oct 63

366,164

A Method for the Approximate Solution of a System
of Nonlinear Integral Equations With Constants
Limits, by Yu. D. Sokolov.

RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal

Vol. 15, No 1, 1965, pp 58-70. *pg 11/29066*

REC ANAL to 369

ENC 15 Oct 66

Sci/Mathematics Sci
Sep 66

The Global Behavior of Solutions of High-Order
Differential Equations, by A. M. Krasnodembskiy,
RUSSIAN, per, Ukrain. Mat. Z., Vol XV, 1963,
pp. 205-213.
Am Math Soc
Vol LIV, Ser 2

Jan 67

316,791